

United States Patent and Trademark Office

Jh/ COMMERCE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/505,216	08/20/2004	Shinya Miyazaki	501.43896X00	2389
20457	7590 12/19/20	05	EXAMINER	
	LI, TERRY, STOU H SEVENTEENTH S	LE, THON	LE, THONG QUOC	
SUITE 1800 ARLINGTON, VA 22209-3873			ART UNIT	PAPER NUMBER
			2827	

DATE MAILED: 12/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)		
	10/505,216	MIYAZAKI ET AL.		
Office Action Summary	Examiner	Art Unit		
	Thong Q. Le	2827		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on This action is FINAL . 2b)⊠ This Since this application is in condition for alloware closed in accordance with the practice under <i>E</i> .	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
 4) Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) Claim(s) 1-9 and 12-15 is/are allowed. 6) Claim(s) 10 and 11 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or 	vn from consideration.	,		
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acce Applicant may not request that any objection to the orection to the orection and the correction are considered to by the Examine specific and the correction are considered to by the Examine specific and the correction are considered to by the Examine specific and the correction are considered to by the Examine specific and the correction are considered to by the Examine specific and the correction are considered to by the Examine specific and the correction are considered to by the Examine specific and the correction are considered to be considered to by the Examine specific and the correction are considered to be considered to	epted or b) objected to by the liderawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/17/2005.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:			

Application/Control Number: 10/505,216 Page 2

Art Unit: 2827

DETAILED ACTION

1. Amendment filed on 11/08/2005 has been entered.

2. Claims 1-15 are presented for examination.

Response to Arguments

3. Applicant's arguments with respect to claims 1-14 have been considered but are most in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

5. Claims 10-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Roohparvar et al. (U.S. Patent No. 6,310,809).

Regarding claims 10-11, Roohparvar et al. disclose a data processing unit (Figure 1) having a nonvolatile memory (104) and a central processing circuit (200)

structure on one semiconductor substrate wherein the nonvolatile memory is capable of storing a program and/or data, and comprises memory cells, (Figure 2, 220, 210) word lines (figure 2, WL), complementary bit lines, and differential amplifiers connected with the complementary bit lines (Column 1, lines 32-34), and wherein the central processing circuit is capable of fetch the program from the nonvolatile memory, and wherein the memory cell comprises a pair of MOS transistors (Figure 2, 220, 210) whose gate electrode are connected the same word line (Figure 2, 220, 210 gate coupled to the same word line), one source/drain electrode of each of pair of MOS transistors is separately connected with a corresponding bit line of the complimentary bit lines (Column 1, lines 32-34), the other source/drain electrode of one of the pair of MOS transistors is connected with a voltage signal line supplied with predetermined voltage (Figure 2, 223 coupled ground), and the other source/drain electrode of the other of the pair of MOS transistors is floated (221 coupled to 214), and the central processing circuit use a common supply voltage as their operating power supply voltage (Figure 1).

Allowable Subject Matter

6. Claims 1-9, 12-15 are allowed.

Claims 1-9, 12-15 include allowable subject matter since the prior art made of record and considered pertinent to the applicant's disclosure does not teach or suggest the claimed limitations. Roohparvar et al. (U.S. Patent No. 6310,809), and others, does not teach the claimed invention having a control circuit is provided which produces a potential difference between the source/drain electrode of transistor during a

Application/Control Number: 10/505,216 Page 4

Art Unit: 2827

predetermined period in the operation of accessing the memory, and make zero the potential difference between the source/drain electrode of transistor during the periods other than the predetermined period.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thong Q. Le whose telephone number is 571-272-1783. The examiner can normally be reached on 8:00am-5:00pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zarabian Amir can be reached on 571-272-1852. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thong Q´. Le Primary Examiner Art Unit 2827